





RCBO, 6 kA, 4P Type A, 300mA, B-Char, In: 6A Un: 400V

Figure similar

Model	
product brand name	SENTRON
product designation	RCBO
design of the product	Instantaneous
General technical data	
number of poles	4
number of poles with protection	4
design of pole	4P
tripping characteristic class	B
mechanical service life (operating cycles) typical	10 000
overvoltage category	3
degree of pollution	3
Voltage	
type of voltage of the operating voltage	AC
insulation voltage (Ui) rated value	500 V
surge voltage resistance rated value	4 000 V
surge current resistance at (8/20) μ s	0.25 kA
tripping fault current rated value	300 mA
<ul style="list-style-type: none"> ● operational current <ul style="list-style-type: none"> — at 30 °C rated value — at 40 °C rated value — at 45 °C rated value — at 50 °C rated value — at 55 °C rated value — at 60 °C rated value — at 70 °C rated value ● operational current at AC rated value 	6 A 5.7 A 5.5 A 5.3 A 5.1 A 5 A 4.7 A 6 A
residual current type	A
Supply voltage	
supply voltage <ul style="list-style-type: none"> ● at AC rated value ● for testing equipment minimum 	400 V 195 V
operating frequency	50 Hz
supply voltage frequency rated value	50 Hz
Protection class	
protection class IP	IP20, if the distribution board is installed, with connected conductors
Breaking Capacity	

switching capacity current					
• according to EN 60898 rated value	6 kA				
• according to IEC 60947-2 rated value	6 kA				
short-circuit current breaking capacity (I_{cn}) according to EN 61009-1 rated value	6 kA				
rated residual switching capacity (I_{Δm}) according to IEC 61009-1	4.5 kA				
energy limitation class	3				
Dissipation					
power loss [W]					
• maximum	1.1 W				
Product details					
product feature touch protection	Yes				
product component neutral conductor switching	Yes				
product feature halogen-free	No				
Connections					
connectable conductor cross-section solid					
• minimum	1 mm ²				
• maximum	35 mm ²				
connectable conductor cross-section stranded					
• minimum	1 mm ²				
• maximum	35 mm ²				
connectable conductor cross-section finely stranded with core end processing					
• minimum	1 mm ²				
• maximum	35 mm ²				
tightening torque with screw-type terminals					
• minimum	2 N·m				
• maximum	2 N·m				
position of power supply cord	Either top or bottom				
Mechanical Design					
height	85 mm				
width	72 mm				
depth	72 mm				
installation depth	70 mm				
number of modular width units	4				
mounting position	any				
Net Weight	441 g				
Environmental conditions					
influence of the surrounding temperature	Max. 95% humidity				
ambient temperature during operation					
• minimum	-25 °C				
• maximum	40 °C				
ambient temperature during storage					
• minimum	-40 °C				
• maximum	70 °C				
number of test cycles for environmental testing according to IEC 60068-2-30	28				
Approvals Certificates					
Environment	General Product Approval				
Environmental Con- firmations		Environmental Con- firmations	Miscellaneous		Confirmation
General Product Approval	other				



Miscellaneous

Confirmation



Miscellaneous

Dangerous goods

[Transport Information](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SU1646-6FP06>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/5SU1646-6FP06>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SU1646-6FP06

CAX-Online-Generator

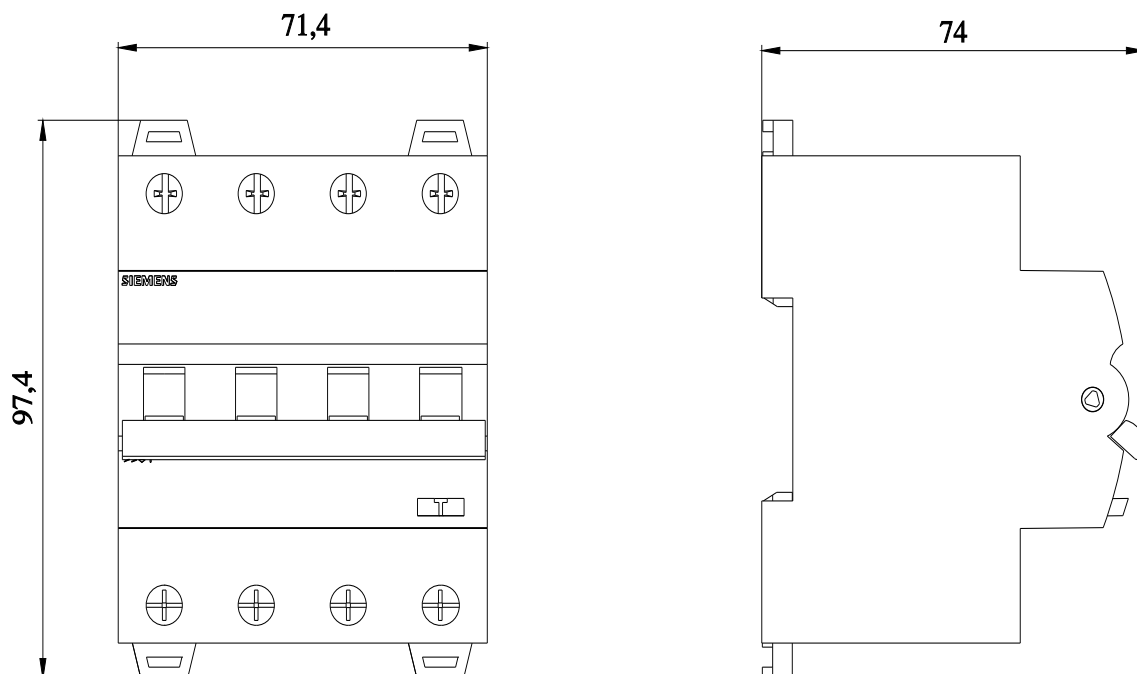
<https://www.siemens.com/cax>

Tender specifications

<https://www.siemens.com/specifications>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



last modified:

7/22/2025 